

SCORE Search Results Details for Application 09961086 and Search Result 20080917_142913_us-09-961-086a-1.rai.

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This page gives you Search Results detail for the Application 09961086 and Search Result 20080917_142913_us-09-961-086a-1.rai.

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OM protein - protein search, using sw model

Run on: September 18, 2008, 22:07:19 ; Search time 74 Seconds
 (without alignments)
 1809.433 Million cell updates/sec

Title: US-09-961-086A-1
 Perfect score: 3352
 Sequence: 1 MSSSNVEVFIPVSQGNTNGF.....MIVIFLTIAVLKLLFLKKYS 655

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 1246758 seqs, 204424485 residues

Total number of hits satisfying chosen parameters: 1246758

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /ABSS/Data/CRF/ptodata/2/iaa/5_COMB.pep:*

2: /ABSS/Data/CRF/ptodata/2/iaa/6_COMB.pep:*

3: /ABSS/Data/CRF/ptodata/2/iaa/7_COMB.pep:*

4: /ABSS/Data/CRF/ptodata/2/iaa/H_COMB.pep:*

5: /ABSS/Data/CRF/ptodata/2/iaa/PCTUS_COMB.pep:*

6: /ABSS/Data/CRF/ptodata/2/iaa/RE_COMB.pep:*

7: /ABSS/Data/CRF/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query				Description
		Match	Length	DB	ID	
1	3352	100.0	655	2	US-09-245-808-1	Sequence 1, Appli
2	3331	99.4	655	2	US-09-767-594-1	Sequence 1, Appli
3	3331	99.4	655	2	US-09-584-586-10	Sequence 10, Appli
4	3331	99.4	655	3	US-09-856-927-2	Sequence 2, Appli
5	2757	82.2	657	2	US-09-584-586-14	Sequence 14, Appli
6	835.5	24.9	1049	2	US-09-538-092-72	Sequence 72, Appli
7	835.5	24.9	1049	3	US-10-369-493-1520	Sequence 1520, Ap
8	812	24.2	687	3	US-09-619-049-264	Sequence 264, App
9	795.5	23.7	676	3	US-10-369-493-3799	Sequence 3799, Ap
10	706.5	21.1	674	2	US-09-538-092-1125	Sequence 1125, Ap
11	702.5	21.0	663	3	US-10-473-696-6	Sequence 6, Appli
12	702.5	21.0	663	3	US-11-567-079-6	Sequence 6, Appli
13	693.5	20.7	652	2	US-09-989-981A-2	Sequence 2, Appli
14	693.5	20.7	652	3	US-09-837-992-1	Sequence 1, Appli
15	693.5	20.7	652	3	US-11-128-026-1	Sequence 1, Appli
16	682.5	20.4	651	2	US-09-989-981A-6	Sequence 6, Appli
17	682.5	20.4	651	3	US-09-837-992-3	Sequence 3, Appli
18	682.5	20.4	651	3	US-11-128-026-3	Sequence 3, Appli
19	677	20.2	559	3	US-10-369-493-5740	Sequence 5740, Ap
20	664	19.8	608	3	US-10-369-493-5748	Sequence 5748, Ap
21	658.5	19.6	1095	3	US-10-369-493-2025	Sequence 2025, Ap
22	657.5	19.6	672	2	US-09-989-981A-4	Sequence 4, Appli
23	640.5	19.1	673	2	US-09-989-981A-8	Sequence 8, Appli
24	639	19.1	658	3	US-10-369-493-5347	Sequence 5347, Ap
25	636.5	19.0	639	3	US-10-369-493-6184	Sequence 6184, Ap
26	636.5	19.0	695	3	US-10-369-493-6199	Sequence 6199, Ap
27	627.5	18.7	610	3	US-10-369-493-5687	Sequence 5687, Ap
28	623	18.6	147	2	US-09-584-586-12	Sequence 12, Appli
29	623	18.6	147	3	US-09-856-927-4	Sequence 4, Appli
30	612.5	18.3	1501	2	US-09-487-558B-346	Sequence 346, App
31	612.5	18.3	1501	3	US-10-369-493-1606	Sequence 1606, Ap
32	602	18.0	1511	2	US-09-487-558B-250	Sequence 250, App
33	602	18.0	1511	3	US-10-369-493-22380	Sequence 22380, A
34	594	17.7	1564	2	US-09-487-558B-244	Sequence 244, App
35	594	17.7	1564	3	US-10-369-493-22424	Sequence 22424, A
36	589	17.6	1549	3	US-10-369-493-3919	Sequence 3919, Ap
37	580.5	17.3	1529	3	US-10-369-493-1692	Sequence 1692, Ap
38	567	16.9	617	2	US-09-614-912-138	Sequence 138, App
39	561.5	16.8	1395	3	US-10-369-493-4054	Sequence 4054, Ap
40	552.5	16.5	611	3	US-10-369-493-12397	Sequence 12397, A
41	544	16.2	1511	3	US-10-369-493-22496	Sequence 22496, A
42	538	16.1	1448	3	US-10-369-493-3997	Sequence 3997, Ap
43	537.5	16.0	560	3	US-10-369-493-12899	Sequence 12899, A
44	537	16.0	1296	2	US-09-614-912-140	Sequence 140, App
45	533.5	15.9	1627	3	US-10-369-493-3838	Sequence 3838, Ap

ALIGNMENTS

RESULT 1
 US-09-245-808-1
 ; Sequence 1, Application US/09245808
 ; Patent No. 6313277
 ; GENERAL INFORMATION:
 ; APPLICANT: Doyle, L. Austin
 ; APPLICANT: Abruzzo, Lynne V.
 ; APPLICANT: Ross, Douglas D.
 ; TITLE OF INVENTION: Breast Cancer Resistance Protein (BCRP) and DNA which
 ; TITLE OF INVENTION: encodes it
 ; FILE REFERENCE: Ross UMB conversion
 ; CURRENT APPLICATION NUMBER: US/09/245,808
 ; CURRENT FILING DATE: 1999-02-05
 ; EARLIER APPLICATION NUMBER: 60/073763
 ; EARLIER FILING DATE: 1998-02-05
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 1
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Human MCF-7/AdrVp cells
 US-09-245-808-1

Query Match 100.0%; Score 3352; DB 2; Length 655;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAKDKPDSLGSQGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAKDKPDSLGSQGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSaalrlattmtnheknerinrviqelgldkvadskvg	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSaalrlattmtnheknerinrviqelgldkvadskvg	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMskQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMskQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300

Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TG1QNRAVGVLFFLTTNQCFSSVSAEFLVVEKKLFIHEYISGYYRVSSYFLGKLLSDLPP	480
Db	421	TG1QNRAVGVLFFLTTNQCFSSVSAEFLVVEKKLFIHEYISGYYRVSSYFLGKLLSDLPP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSUVSVATLL	540
Db	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSUVSVATLL	540
Qy	541	MTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Db	541	MTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

RESULT 2

US-09-767-594-1

; Sequence 1, Application US/09767594
; Patent No. 6521635
; GENERAL INFORMATION:
; APPLICANT: Bates, Susan
; APPLICANT: Robey, Robert
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Inhibition of MXR Transport by Acridine Derivatives
; FILE REFERENCE: 015280-402100US
; CURRENT APPLICATION NUMBER: US/09/767,594
; CURRENT FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 60/177,410
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human mitoxanthrone resistance (MXR) /BRCP/ABCP
; OTHER INFORMATION: protein

US-09-767-594-1

Query Match 99.4%; Score 3331; DB 2; Length 655;
 Best Local Similarity 99.4%; Preq. No. 0;
 Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKGFLPCRKPVE 60
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 Db 1 MSSSNVEVFIPVSQGNTNGFPATVSNDLKAFTEGAVLSFHNICYRVKLKGFLPCRKPVE 60

Qy 61 KEILSNINGIMKPGLNAILGPTGGGKSSLVDLAARKDPGSLGDVLINGAPRPNFKCN 120
 |||||||
 Db 61 KEILSNINGIMKPGLNAILGPTGGGKSSLVDLAARKDPGSLGDVLINGAPRPNFKCN 120

Qy 121 SGYVVQDDVVVMGTLTVRENLQFSAAALRATTMTNHEKNERINRVIQELGLDKVADSKVGT 180
 |||||||:|||||||
 Db 121 SGYVVQDDVVVMGTLTVRENLQFSAAALRATTMTNHEKNERINRVIQELGLDKVADSKVGT 180

Qy 181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRM SKQGRTIIF 240
 |||||||
 Db 181 QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSTANAVLLLLKRM SKQGRTIIF 240

Qy 241 SIHQPRYSIFKLFDSLTLLASGR LM FHGP AQE ALG YFESAG YHCEAYNNPADFFLDIING 300
 |||||||
 Db 241 SIHQPRYSIFKLFDSLTLLASGR LM FHGP AQE ALG YFESAG YHCEAYNNPADFFLDIING 300

Qy 301 DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK 360
 |||||||
 Db 301 DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK 360

Qy 361 ITVFKEISYTTSFCHQLRWVS KRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS 420
 |||||||
 Db 361 ITVFKEISYTTSFCHQLRWVS KRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS 420

Qy 421 TGIQN RAGV LFLTTNQCFS SVA EFLV FVVE KKLFIHEYI SGGYR VSSYFLGKLLSDLLP 480
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 Db 421 TGIQN RAGV LFLTTNQCFS SVA EFLV FVVE KKLFIHEYI SGGYR VSSYFLGKLLSDLLP 480

Qy 481 MTMLPSIIFTCIVYFMLGLKP KAD AFFVMMFTLMMV AYSASSM ALAIAAGQS VVS V ATLL 540
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 Db 481 MRMLPSIIFTCIVYFMLGLKP KAD AFFVMMFTLMMV AYSASSM ALAIAAGQS VVS V ATLL 540

Qy 541 MTICFVMMIFSGLLVNLT TI ASWLSWLQYFSIPRYGFTALQHNEFLGQNF CPGLNATGN 600
 |||||||
 Db 541 MTICFVMMIFSGLLVNLT TI ASWLSWLQYFSIPRYGFTALQHNEFLGQNF CPGLNATGN 600

Qy 601 NPCNYATCTGE EYLVKQGIDLSPWGLWKNHVALACMIVI FLTIAYLKLLFLKKYS 655
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 Db 601 NPCNYATCTGE EYLVKQGIDLSPWGLWKNHVALACMIVI FLTIAYLKLLFLKKYS 655

RESULT 3

US-09-584-586-10

; Sequence 10, Application US/09584586

; Patent No. 6933150
 ; GENERAL INFORMATION:
 ; APPLICANT: Sorrentino, Brian
 ; APPLICANT: Bunting, Kevin
 ; TITLE OF INVENTION: EXPANSION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH
 ; TITLE OF INVENTION: MDR-1 METHODS OF USE THEREOF
 ; FILE REFERENCE: 1340-1-021CIP
 ; CURRENT APPLICATION NUMBER: US/09/584,586
 ; CURRENT FILING DATE: 2000-05-31
 ; EARLIER APPLICATION NUMBER: US 60/086,988
 ; EARLIER FILING DATE: 1998-05-28
 ; EARLIER APPLICATION NUMBER: PCT/US99/11825
 ; EARLIER FILING DATE: 1999-05-27
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 10
 ; LENGTH: 655
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-584-586-10

Query Match 99.4%; Score 3331; DB 2; Length 655;
 Best Local Similarity 99.4%; Pred. No. 0;
 Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy	1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLFSFHNICYRVLKSGFLPCRKPVE	60
Db	1 MSSSNVEVFIPVSQGNTNGFPATVSNDLKAFTEGAVLFSFHNICYRVLKSGFLPCRKPVE	60
Qy	61 KEILSNINGIMKPGLNAILGPTGGGKSSLVDLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61 KEILSNINGIMKPGLNAILGPTGGGKSSLVDLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121 SGYVQDDVVMGTLTVRENLQFSaalRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121 SGYVQDDVVMGTLTVRENLQFSaalRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKSQGRTIIF	240
Db	181 QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSTANAVLLLLKRMKSQGRTIIF	240
Qy	241 SIHQPRYSIFKLFDSLTLASGRLMFHGPQAEGYFESAGYHCEAYNNPADFFLDIING	300
Db	241 SIHQPRYSIFKLFDSLTLASGRLMFHGPQAEGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301 DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301 DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361 ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYGLKNDS	420
Db	361 ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYGLKNDS	420

Qy	421	TGIQN RAGVLFFLT TNQCFSSVSA E V FV V E KKLFIHEYI SGGYR VSSYFLGKLLSDLLP	480
Db	421	TGIQN RAGVLFFLT TNQCFSSVSA E V FV V E KKLFIHEYI SGGYR VSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFT CIVYFMLGLKP KAD AFFVMMFTLMMV AYSASSM ALAIAAGQSVV SVAT LL	540
Db	481	MRMLPSIIFT CIVYFMLGLKP KAD AFFVMMFTLMMV AYSASSM ALAIAAGQSVV SVAT LL	540
Qy	541	MTICF VFM MIFSG L L VNLTTIASWLSWLQYFSI P RY GFTALQHNEFLGQNF CPG L NATGN	600
Db	541	MTICF VFM MIFSG L L VNLTTIASWLSWLQYFSI P RY GFTALQHNEFLGQNF CPG L NATGN	600
Qy	601	NPC NYATCTGE EYL V KQG IDLSPW GLWKNHVALACMIVI FLTIAYLKL LFLKKYS	655
Db	601	NPC NYATCTGE EYL V KQG IDLSPW GLWKNHVALACMIVI FLTIAYLKL LFLKKYS	655

RESULT 4

US-09-856-927-2

; Sequence 2, Application US/09856927

; Patent No. 7138493

; GENERAL INFORMATION:

; APPLICANT: Dean, Michael

; APPLICANT: Allikmets, Rando

; APPLICANT: Bates, Susan E.

; APPLICANT: Fojo, Antonio T.

; APPLICANT: The Government of the United States of America

; APPLICANT: as represented by the Secretary of the

; APPLICANT: Department of Health and Human Services

; TITLE OF INVENTION: A No. 7138493el ATP-Binding Cassette Protein Responsible for

; TITLE OF INVENTION: Cytotoxin Resistance

; FILE REFERENCE: 015280-382100US

; CURRENT APPLICATION NUMBER: US/09/856,927

; CURRENT FILING DATE: 2001-05-29

; PRIOR APPLICATION NUMBER: US 60/110,473

; PRIOR FILING DATE: 1998-11-30

; PRIOR APPLICATION NUMBER: WO PCT/US99/28107

; PRIOR FILING DATE: 1999-11-24

; NUMBER OF SEQ ID NOS: 6

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-856-927-2

Query Match 99.4%; Score 3331; DB 3; Length 655;

Best Local Similarity 99.4%; Pred. No. 0;

Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVLKLSGFLPCRKPVE 60

Db	1	MSSNVEFIPVSQNTNGFPATVSNDLKAFTEGAVLSFHNCYRVLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGKSSLVDLAAARKDPGSLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGKSSLVDLAAARKDPGSLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFDEPTTGDSSTANAVLLLLKRM SKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFDEPTTGDSSTANAVLLLLKRM SKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPQAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPQAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND S	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND S	420
Qy	421	TGICNQRAGVLFFLTTNQCFSSVSAVELFVVEKKLFIHEYISGYYRVSSYFLGKLLSDLLP	480
Db	421	TGICNQRAGVLFFLTTNQCFSSVSAVELFVVEKKLFIHEYISGYYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLPKADAFFVMMFTLMMVAYSASSMALAIAAGQS VVSATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLPKADAFFVMMFTLMMVAYSASSMALAIAAGQS VVSATLL	540
Qy	541	MTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Db	541	MTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Qy	601	NPCNYATCTGEELYLVKQGIDLSPWGLWKNHVALACMIVIFTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEELYLVKQGIDLSPWGLWKNHVALACMIVIFTIAYLKLLFLKKYS	655

RESULT 5

US-09-584-586-14

; Sequence 14, Application US/09584586

; Patent No. 6933150

; GENERAL INFORMATION:

; APPLICANT: Sorrentino, Brian

; APPLICANT: Bunting, Kevin

; TITLE OF INVENTION: EXPANSION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH

; TITLE OF INVENTION: MDR-1 METHODS OF USE THEREOF
 ; FILE REFERENCE: 1340-1-021CIP
 ; CURRENT APPLICATION NUMBER: US/09/584,586
 ; CURRENT FILING DATE: 2000-05-31
 ; EARLIER APPLICATION NUMBER: US 60/086,988
 ; EARLIER FILING DATE: 1998-05-28
 ; EARLIER APPLICATION NUMBER: PCT/US99/11825
 ; EARLIER FILING DATE: 1999-05-27
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 14
 ; LENGTH: 657
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-09-584-586-14

Query Match 82.2%; Score 2757; DB 2; Length 657;
 Best Local Similarity 81.5%; Pred. No. 3.2e-278;
 Matches 536; Conservative 51; Mismatches 67; Indels 4; Gaps 3;

Qy	1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLFSFHNICYRVLKLSGFLPCRKPVE	60
	: : :: : :	
Db	1 MSSSNNDHVLPMSQRNNNGLPRMNSRAVRTLAEGDVLASFHHITYRVVKSGFL-VRKTVE	59
Qy	61 KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAPRPANFKCN	120
	: : : : : : : : : :	
Db	60 KEILSDINGIMKPGLNAILGPTGGGKSSLLDVLAAARKDPKGLSGDVLINGAPQPAHFKCC	119
Qy	121 SGYVVQDDVVVMGTLTVRENLQFSaalrlattmtnheknernrviqelglkdkvadskvgt	180
	: : : : : : : : : :	
Db	120 SGYVVQDDVVVMGTLTVRENLQFSaalrlpttmknheknernintiikelglekvadskvgt	179
Qy	181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMSKQGRTIIF	240
	: : : : : : : : : :	
Db	180 QFIRGISGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMSKQGRTIIF	239
Qy	241 SIHQPRYSIFKLFDSLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
	: : : : : : : : : :	
Db	240 SIHQPRYSIFKLFDSLTLLASGKLVFHGPAQKALEYFASAGYHCEPYNNPADFFLDVING	299
Qy	301 DSTAVALNREE-DFKATEIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKK	359
	: : : : : : : : :	
Db	300 DSSAVMLNREEQDNEANKTEEPSKGKEKPVIENLSEFYINSAIYGETKAELDQLPGAQEKK	359
Qy	360 KITVFKEISYTTSFCHQLRWRVSRSFKNLNGNPQASIAQIIVTVVLGLVIGAIYFGLKND	419
	: : : : : : : : : : : : : : : : : : : :	
Db	360 GTSAFKEPVYVTSFCHQLRWIARRSFKNLLGNNPQASVAQLIVTIVLGLIIGAIYFDLKYD	419
Qy	420 STGIQNRAVGVLFFLTTNQCFSSSAVELFVVEKKLFIFIHEYISGYYRVSSYFLGKLLSDL	479
	: : : : : : : : : : :	
Db	420 AAGMQNRAVGVLFFLTTNQCFSSSAVELFVVEKKLFIFIHEYISGYYRVSSYFFGKVMSDL	479

Qy	480	PMTMLPSIIFTCIVYFMLGLPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATL	539
		: :	: : :
Db	480	PMRFLPSVIFTCILYFMLGLKKTVDAFFIMMFTLIMVAYTASSMALAIAATGQSVVSVATL	539
Qy	540	LMTICFVFMIMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATG	599
		:	: :
Db	540	LMTIAFVFMMIFSGLLVNLRTIGPWLSWLQYFSIPRYGFTALQYNEFLGQEFCPGFNVTD	599
Qy	600	NNPC--NYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVFLTLTIAVLKLLFLKKY	655
	:	:	:
Db	600	NSTCVNSYIACTGNEYLINQGIELSPWGLWKNHVALACMIIIFLTIAVLKLLFLKKY	657

RESULT 6

US-09-538-092-72

; Sequence 72, Application US/09538092

; Patent No. 6753314

; GENERAL INFORMATION:

; APPLICANT: Giot, Loic

; APPLICANT: Mansfield, Traci A.

; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same

; FILE REFERENCE: 15966-542

; CURRENT APPLICATION NUMBER: US/09/538,092

; CURRENT FILING DATE: 2000-03-29

; PRIOR APPLICATION NUMBER: 60/127,352

; PRIOR FILING DATE: 1999-04-01

; PRIOR APPLICATION NUMBER: 60/178,965

; PRIOR FILING DATE: 2000-02-01

; NUMBER OF SEQ ID NOS: 1387

; SOFTWARE: CuraPatSeqFormatter Version 0.9

; SEQ ID NO 72

; LENGTH: 1049

; TYPE: PRT

; ORGANISM: Saccharomyces cerevisiae

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (0)...(0)

; OTHER INFORMATION: Polypeptide Accession Number YCR011C

US-09-538-092-72

Query Match 24.9%; Score 835.5; DB 2; Length 1049;
 Best Local Similarity 30.5%; Pred. No. 4.5e-77;
 Matches 222; Conservative 134; Mismatches 257; Indels 115; Gaps 18;

Qy	1	MSSNNEVVFIPVSQGNTNGFPATASNDLKFTEGAVLFSFHNCYRVKLKGFLPCRKPVE	60
		:	
Db	355	LGSSKSPIRLP-DEDAVNNFLQNEDDTL-----ATLSFENITYSVPINS-----DGVE	402
Qy	61	KEILSNINGIMKPG-LNAILGPTGGGKSSLVDVLAARKDPSGLSGDVLINGAPRP-ANFK	118
		:	
Db	403	ETVLNEISGIVKPGQILAIMGGSGAGKTTLLDILAMKRKTGHVSGSIKVNGISMDRKSFS	462

Qy 119 CNSGYVVQDDVVMGTLTVRENLQFSAA RLATTMTNHEKNERINRVIQELGLDKVADSKV 178
| : | || :: || || | : || || : : | | : : || : : | :
Db 463 KIIGFVQDQDFLLPTLVFETVLNSALLRLPKALSFEAKKARVYKVLEELRIIDIKDRII 522

Qy 179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVL LLLKRMMSKQ-GRT 237
| : | || :: || | : || | : || || : || | : | || : | : ||
Db 523 GNEFDRGSIGGKERRVSIACELVTSPVLFLDEPTSGLDASANNVIECLVRLSSDYNRT 582

Qy 238 IIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQAELGYFESAGYHCEAYNNPADFFLDI 297
| : || || | : | || | : | : || | : : | : || | : || | : ||
Db 583 LVLSIHQPRSNIFYLFKLVLLSKGEMVYSGNAKKVSEFLRNEG YICPDNYNIADYLIDI 642

Qy 298 -----INGDSTAV 305
| : |
Db 643 TFEAGPQGKRRRIRNISDLEAGTDTNDIDNTIHQTTFTSSDGT TQREWAHLAAHRDEIRS 702

Qy 306 ALNREEDFKATE---IEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQ-LSGGEKKKK 360
| | | : | : | | | : | | : | : | : | : | : | : | : | : |
Db 703 LLRDEEDVEGTGDRG RGA TEIDLNTKLLHDK---YKDSVYYAELSQEIEEVLSSEGDEESN 758

Qy 361 IT--VFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVVVLGLVIGAIYFGLKN 418
| : | : | | : || | : | : | : | : | : | : | : | : |
Db 759 VLNGDLPTGQQSAGFLQQLSILNSRSFKNMYRNPKLLGNLYLLTILLSLFLGTLYYNVSN 818

Qy 419 DSTGIQN RAGVLFFLT TNQCFSSSAVELFVVEKKLFIHEYISGYYRVSSYFLGKLLSDL 478
| : | | | : | : | : | : | : | : | : | : | : | : | : |
Db 819 DISGFQN RGMGLFFFILTYFGFVFTGLSSFALE RII FIKERSNNYYSPPLAYISKIMSEV 878

Qy 479 LPMTMLPSIIFT CIVYFMLGLKP KAD AFFVMMFTLMMVAYSASSM ALAI AAGQS VVSAT 538
| : | : | : | : | : | : | : | : | : | : | : | : |
Db 879 VPLRVVPPILLSLIVYPM TGLNMKD NAFFKCIGI LILFNL G ISLEILTIGI I FEDLNNSI 938

Qy 539 LLMTICFVMMIFSGLLV--NLTTIASWLSWQYFSIPRYGFTALQHNEF----- 586
| : | : | : | : | : | : | : | : | : | : |
Db 939 ILSVLVLLGSLLFSGLFINTKNITNVA--FKYLK NFSV FYYAYESLLLINEVKTMLKERK 996

Qy 587 LGQNF-CPGLNATGNNPCNYATCTGEEYLVKQG I--DLSPWGLWKNHV ALACMIVI FLT I 643
| | | | | | | | : | : | : | : | : | : | : |
Db 997 YGLNIEVPG-----ATILSTFGFVVQNLVFDIK-----ILALFNVVFLIM 1036

Qy 644 AYLKLFL 651
| | | : :
Db 1037 GYLA LKWI 1044

RESULT 7

US-10-369-493-1520

; Sequence 1520, Application US/10369493

; Patent No. 7314974

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Slater, Steven C.
 ; APPLICANT: Goldman, Barry S.
 ; APPLICANT: Chen, Xianfeng
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
 ; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
 ; FILE REFERENCE: 38-10(52052)B
 ; CURRENT APPLICATION NUMBER: US/10/369,493
 ; CURRENT FILING DATE: 2003-02-28
 ; PRIOR APPLICATION NUMBER: US 60/360,039
 ; PRIOR FILING DATE: 2002-02-21
 ; NUMBER OF SEQ ID NOS: 47374
 ; SEQ ID NO 1520
 ; LENGTH: 1049
 ; TYPE: PRT
 ; ORGANISM: *Saccharomyces cerevisiae*
 US-10-369-493-1520

Query Match 24.9%; Score 835.5; DB 3; Length 1049;
 Best Local Similarity 30.5%; Pred. No. 4.5e-77;
 Matches 222; Conservative 134; Mismatches 257; Indels 115; Gaps 18;

Qy	1 MSSSNNEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVLKSGFLPCRKPVE	60
	: : : : : : : :	
Db	355 LGSSKSPIRLP-DEDAVNNFLQNEEDTL-----ATLSFENITYSVPSINS-----DGVE	402
Qy	61 KEILSNINGIMKPG-LNAILGPTGGGKSSLVDLAAARKDPGSLSGDVLINGAPRP-ANFK	118
	: : : : : : : : : : : :	
Db	403 ETVLNEISGIVKPGQILAIMGGSGAGKTTLLDILAMKRKTGHVSGSIKVNGISMDRKSFS	462
Qy	119 CNSGYVVQDDVVVMGTLTVRENLFQSAALRATTMTNHEKNERINRVIQELGLDKVADSKV	178
	: : : : : : : : : : :	
Db	463 KIIGFVDQDDFLPLTIVFETVLSALLRLPKALSFEAKKARVYKVLEELRIIDIKDRII	522
Qy	179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMSKQ-GRT	237
	: : : : : : : : : : : :	
Db	523 GNEFDGRISGGEKRRVSIACELVTSPLVLFLDEPTSGLDASANNVIECLVRLSSDYNRT	582
Qy	238 IIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQAQEALGYFESAGYHCEAYNNPADFFLDI	297
	: : : : : : : : : : : : :	
Db	583 LVLSIHQPRSNIFYLFDKLVLLSKGEMVYSGNAKKVSEFLRNEYICPDNYNIADYLIDI	642
Qy	298 -----INGDSTAV	305
	:	
Db	643 TFEAGPQGKRRRIRNISDLEAGTDTNDIDNTIHQTTFTSSDGTQREWALAAHRDEIRS	702
Qy	306 ALNREEDFKATE---IIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQ-LSGGEKKKK	360
	: : : : : : : : : : : :	
Db	703 LLRDEEDVEGTDGRRGATEIDLNTKLLHDK---YKDSVYYAELSQEIEEVSEGDEESN	758
Qy	361 IT--VFKEISYTTSFCHQLRWVSKRSFKNLLGPNQASIAQIIVTVVLGLVIGAIYFGLKN	418
	: : : : : : : : : : :	
Db	759 VLNGDLPTGQSQAGFLQQLSILNSRSFKNMYRNPKLLGNYLLTILLSFLGLTLYNVSN	818

RESULT 8

US-09-619-049-264

i Sequence 264, E

Patent No. 7135558

GENERAL INFORMATION:

APPLICANT: YANDELL, MARK
TITLE OF INVENTION: ISOLATED DROSOPHILA PROTEINS ESSENTIAL
TITLE OF INVENTION: FOR SURVIVAL, NUCLEIC ACID MOLECULES ENCODING ESSENTIAL
TITLE OF INVENTION: DROSOPHILA PROTEINS, AND USES THEREOF AS INSECTICIDAL
TITLE OF INVENTION: TARGETS
FILE REFERENCE: CL000735
CURRENT APPLICATION NUMBER: US/09/619,049
CURRENT FILING DATE: 2000-07-18
PRIOR APPLICATION NUMBER: 60/171,590
PRIOR FILING DATE: 1999-12-23
PRIOR APPLICATION NUMBER: 60/171,627
PRIOR FILING DATE: 1999-12-23
PRIOR APPLICATION NUMBER: 60/175,763
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/175,685
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/186,663
PRIOR FILING DATE: 2000-03-03
PRIOR APPLICATION NUMBER: 60/187,241
PRIOR FILING DATE: 2000-03-03
NUMBER OF SEQ ID NOS: 1533
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 264
LENGTH: 687
TYPE: PRT

; ORGANISM: DROSOPHILA
US-09-619-049-264

Query Match 24.2%; Score 812; DB 3; Length 687;
Best Local Similarity 32.1%; Preq. No. 6.3e-75;
Matches 210; Conservative 134; Mismatches 251; Indels 60; Gaps 17;

Qy 5 NVEVFIPVSQGNNTNGFPATASNDLKAFTEGAVLSPFHNCYRVLKLSGFLPCRKPVEKEIL 64
|:::| |:| | : | | | : :| | : | | :|
Db 74 NMDIFGAVNQ-----PGSGWRLQVLNRTRGLFCNERHI-----PAPR---KHLL 113

Qy 65 SNINGIMKPG-LNAILGPTGGGKSSLVDLAAKDPGSL---SGDVILINGAPRPA-NFK 118
| : | | | | : | | : | | : | | | | : | | | | : |
Db 114 KNVCGVAYPGELLAVMGSSGAGKTTLLNALAFR-SPQGIQVSPSGMRLLNGQPVDAKEMQ 172

Qy 119 CNSGYVVQDDVVMTLTVRENLFQSAALRATTMTNHEKNERINRVIQELGLDKVADSKV 178
| | | : | : | | | | | : | | : | | | | | : |
Db 173 ARCAVYQQDDLFIGSLTAREHLLFQAMVRMPRHLYTQRVARVDQVIQELSLSKCQHTII 232

Qy 179 GTQ-FIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMKSQGRT 237
| | : | | | | | : | | : | | | | | | | : | | : |
Db 233 GVPGRVKGLSGGERKRLAFASEALTDPPPLICDEPTSGLDSFTAHSVVQVLKKLSQKGKT 292

Qy 238 IIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQAELGYFESAGYHCEAYNNPADFFLDI 297
| : | | | | : | : | | | | | | | | | | | | | | : |
Db 293 VILTIHQPSSELFELFDKILLMAEGRVAFLGTPSEAVDFFSYVGAQCPTNYPADFYVQV 352

Qy 298 INGDESTAVALNREEDFKATEIIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAEHLHQLSGGEK 357
| : | | | | : | | | | | | | | | | | | | | | | : |
Db 353 L-----AVVPGREIESR-----DRIAKICDNFAISKVAR-DMEQLLATKN 391

Qy 358 KKKITVFKEISYT--TSFCHQLRWVSRSFKNLGNPQASIAQIIIVTUVLGLVIGAIYFG 415
| | | | | | | : | | | | | | | | | | | | | | | | : |
Db 392 LEKPLEQPENGYTYKATWFMQFRAVLWRSLVKEPLLVKVRLIQTTMVAIIIGLIFLQ 451

Qy 416 LKNDSTGIQNRAVGVLFFLTTNQCFSSVSA-VELFVVEKKLFIHEYISGYRVSSYFLGKL 474
| : | | | | | | | | | | | | | | | | | | | | | | : |
Db 452 QQLTQVGVMNINGAIFLFLTNMTFQNVTATINVFTSELPVFMREARSRLYRCDTYFLGKT 511

Qy 475 LSDLLPMTMLPSIIFTCIVYFMLGLKPKADEFVMMFTLMMVAYSASSMALIAAGQSVV 534
| : | | | | | | | | | | | | | | | | | | | | | | : |
Db 512 IAE-LPLFLTVPLVFTAIAYPMIGLRAVGVLHFFNCLALVTIVANVSTSFGYLISCASSST 570

Qy 535 SVATLLMTICVFMMIFSGLLVNLTTIASWLSLWQYFSIPRYGFTALQHNEFLGQNFCPG 594
| : | | | | | | | | | | | | | | | | | | | | | | : |
Db 571 SMALSVGPVVIIPFLFFGGFLNSGSVPVYKLWLSYLSWFRYANEGLLINQWADVE--PG 628

Qy 595 -LNATGNNPNCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVFLTIAVLKL 648
| : | | | | | | | | | | | | | | | | | | | | | | : |
Db 629 EISCTSSN---TTCPSGKVILETNFSADLPLDYVGLAILIVSFRVLAYLAL 679

RESULT 9

US-10-369-493-3799

; Sequence 3799, Application US/10369493

; Patent No. 7314974

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Goldman, Barry S.

; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES

; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493

; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039

; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374

; SEQ ID NO 3799

; LENGTH: 676

; TYPE: PRT

; ORGANISM: Neurospora crassa

US-10-369-493-3799

Query Match 23.7%; Score 795.5; DB 3; Length 676;

Best Local Similarity 31.2%; Fred. No. 3.2e-73;

Matches 199; Conservative 107; Mismatches 218; Indels 113; Gaps 11;

Qy 61 KEILSNINGIMKPG-LNAILGPTGGGKSSLVDLAARKDPGSLSGDVLINGAP-RPANFK 118
||| || | |: || : ||: | : ||:: ||:|| : :||| || | :|

Db 1 KEILSGIQGMAHPGEVTAIMGASGAGKTTFLDILARKNKRGQVSGDFYINGEKVSDPEYK 60

Qy 119 CNSGYVVQDDVVMTLTVERNLFQSAALRLATTMNHEKNERINRVIQELGLDKVADSKV 178
:| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 61 NAVGFVDQEDTMLPTLTVHETILNSALLRLPKDMTRAAKEQVRVIEVEKQLGIYHIRDSL 120

Qy 179 GTQ--FIRGVSGGERKRRTSIGMELITDPSILFLDEPTTGLDSSTA-NAVLLLLKRMKSQG 235
|::| :||:||:| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 121 GSEEGKGRGISGGEKRRVGIACELVTSPSILFLDEPTSGLDAYNAYNVVECLVTLAKTYK 180

Qy 236 RTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQAEGYFESAGYHCEAYNNPADFFL 295
||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||:||

Db 181 RTVIFTIHQPRSNIVALFDRLILLAQGKTVYSGPLHQQCQEYFDQIGYTCPPGFNIADYLV 240

Qy 296 DI-----INGDSTAVALNREEDFKA-----TEIIEPS----- 322
|: :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 241 DLTMHAGSTSSYDDGTLSDVGVSVGPSSTRAVKSIASVSGVSIGDDSLVESSSRPRNKR 300

Qy 323 -----KQDKPL----- 328
:|:| :|

Db 301 RDSVRRQERELYTRRKQAVDTAASSDAGDEIGGYKLQKQPPVTPLRSTNDDLHDLPPLA 360

Qy 3 SSNVEVFIPVSQNTNGFPATASNDL---KAFT---EGAV-LSFHNCYRVKLKSGFLP 54
 ||::| || |: :| || |: | :| :
 Db 34 SSNMEA---TETDLLNGLKVKDNNLTEAQRFSSLPRRAAVNIEFRDLSYSVPEGPWW-- 88

Qy 55 CRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVILINGAPR 113
 || | :| |:| | | || |:| | | | | | | :
 Db 89 -RKGYKTLKGKISGKFNSGELVAIMGPSGAGKSTLMNILAGYRE-TGMKGAVLINGLPR 146

Qy 114 PAN-FKCNSGYVVQDDVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDK 172
 |: | |:| |:| | | | | | | | | | | | |:
 Db 147 DLRCFRKVSCYIMQDDMLLPHLTQVQEAMMVS AHLKLQE--KDEGRREMVEILTALGLLS 204

Qy 173 VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRM 232
 |::| |: |:| | | | | | | | | | | |:
 Db 205 CANTRTGS---LSGGQRKRRLAIALELVNNPPVMFFDEPTSGLDSASCQVVSLSMKGLA 259

Qy 233 KQGRTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQAEGYFESAGYHCEAYNNPAD 292
 |:| |: |:| | |:| | | | | | | | |:
 Db 260 QGGRSIICTIHQPSAKLFELFDQLYVLSQGQCVCYRGKVCNLPYLRDGLNCPYHNPAD 319

Qy 293 FFLDIINGDSTAVALNREDFKATEIIIEPSKQDKPLIEKLAIEIVNNSFYKET--KAEL- 349
 | | | | | | | | | | | | | | |:
 Db 320 FVMEVASG-----EYGDQNSRLVRAVREGMCDSDHKRDLGDAEVN 360

Qy 350 ----HQLSGEKK-KITVFKEISYTTSFCH-----QLRWVSKRSFKNLGNPQASI 396
 |: | |: | | | | | | | | | |:
 Db 361 PFLWHRPSEEVKQTQLKGLRKDSSSMEGCHSFSASCLTQFCILFKRTFLSIMRDSVLTH 420

Qy 397 AQIIVTVVLGLVIGAIYFGLKNDSTGIQNRAVLFFLTNNQCFSSVSABEL-FVVEKKLF 455
 | | | | | | | | | | | | | | |:
 Db 421 LRITSHIGIGLLIGLLYLGIGNEAKKVLNSNGFLFFSMLFLMFAALMPTVLTFPLEMGVF 480

Qy 456 IHEYISGGYRVSFYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTL-M 514
 | | | | | | | | | | | | | | |:
 Db 481 LREHLYNWYSLKAYYLAKTMD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRFLVFAALGT 538

Qy 515 MVAYSASSMALIAAGQSVVSVATLLMTICFVFMIFSGLVLNLTIASWLSWLQYFSIP 574
 | | | | | | | | | | | | | | |:
 Db 539 MTSLVAQSLGLLIGAATSLQVATFVGPTAIPVLLFSGFFVFSFTDITPYLQWMSYISYV 598

Qy 575 RYGF-----ALQHNEFLGQNFCPGLNATGNPCNYATCTGEEYLVKQGIDLSPWGLW 627
 |||| | | | | | | | | | | | | |:
 Db 599 RYGFEGVILSIYGLDRED-----LHCDIDETCHFQK---SEAILRE-LDVENAKLY 645

Qy 628 KNHVALACMIVFLTIAYLKL 650
 | | | | | |:
 Db 646 LDFIVLGIFFISLRLIAYFVLRY 668

RESULT 11

US-10-473-696-6

; Sequence 6, Application US/10473696

; Patent No. 7211563
 ; GENERAL INFORMATION:
 ; APPLICANT: DeveloGen AG for entwicklungsbiol. Forschung
 ; TITLE OF INVENTION: Protein disulfide isomerase and ABC transporter
 ; TITLE OF INVENTION: homologous proteins involved in the regulation of
 ; TITLE OF INVENTION: energy homeostasis
 ; FILE REFERENCE: 24941PWO_RI
 ; CURRENT APPLICATION NUMBER: US/10/473,696
 ; CURRENT FILING DATE: 2003-09-29
 ; PRIOR APPLICATION NUMBER: EP01108315.1
 ; PRIOR FILING DATE: 2001-04-02
 ; NUMBER OF SEQ ID NOS: 21
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 663
 ; TYPE: PRT
 ; ORGANISM: Human
 US-10-473-696-6

Query Match 21.0%; Score 702.5; DB 3; Length 663;
 Best Local Similarity 28.4%; Pred. No. 1.6e-63;
 Matches 193; Conservative 153; Mismatches 246; Indels 87; Gaps 23;

Qy	3 SSNVEVFIPVSQGNTNGFPATASNDL---KAFT---EGAV-LSFHNCYRVKLKGFLP 54
::	: : : : :: :
Db	35 SSNMEA---TETDLLNGHLKKVDDNLTEAQRFSSLPRRAAVNIEFRDLSYSVPEGPWW-- 89
Qy	55 CRKVEKEIISNNGIMKPG-LNAILGPTGGKSSLLDVLAAKRDPSGLSGDVLINGAPR 113
: : : :	
Db	90 -RKKGYKTLKGISGKFNSGELVAIMPGSPGAGKSTLMNILAGYRE-TGMKGAVLINGLPR 147
Qy	114 PAN-FKCNNSGYVVQDDVMGTLTVRENQFSAALRLATTMTNHEKNERINRVIQELGLDK 172
: : : :	
Db	148 DLRCFRKVSCYIMQDDMLPHLTQVQEAMMVAHLKLQE--KDEGRREMVEKILTALGLLS 205
Qy	173 VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLKRMS 232
: : :	
Db	206 CANTRTGS----LSGGQRKRKLAIALELVNNPPVMFFDEPTSGLDSASCQVVSLSMKGIA 260
Qy	233 KQGRTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPAD 292
: : :	
Db	261 QGGRSIICHTHQPSAKLFEFLDQLYVLSQGQCVCYRGKVCNLPYLRDLGLNCPTYHNPAD 320
Qy	293 FFLDIINGDSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQL 352
Db	321 FVMEVASG-----EYGDQNSRLVRAVREGMCDS---DHKRDL--- 354
Qy	353 SGGEKKKKITVF---KEISYTTSFCH-----QLRWVSKRSFKNLLGNPQASIAQII 400
: : :	
Db	355 -GGDAEVNPFLWHRPSEEDSSSMEGCHSFSASCLTQFCILFKRTFLSIMRDSVLTHLRIT 413
Qy	401 VTVVGLVIGAIYFGKLNDSTGIQNRAVGLFLTTNQCFSSVSAVEL-FVVEKKLFIHEY 459

Db 414 SHIGIGLLIGLLYLGIGNEAKKVLNSGFLFMSMLFLMFAALMPTVLTFFLEMGVFLREH 473

Qy 460 ISGYYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLPKADAFFVMMFTL-MMVAY 518

Db 474 LNYWYSLKAYYLAKTMAD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRFLFAALGTMDSL 531

Qy 519 SASSMALAIAAGQSUVSATLLMTCFVFMIFSGLLVNLTIASWLSWLQYFSIPRYGF 578

Db 532 VAQSLGLLIGAASLQLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYISYVRYGF 591

Qy 579 T-----ALQHNEFLGQNFCPGLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHV 631

Db 592 EGVILSIYGLDRED-----LHCIDIDETCHFQK---SEAILRE-LDVENAKLYLDFI 638

Qy 632 ALACMIVIFLTIAVLKLLF 650

Db 639 VLGIFFISLRLIAYFVLRY 657

RESULT 12

US-11-567-079-6

; Sequence 6, Application US/11567079

; Patent No. 7404952

; GENERAL INFORMATION:

; APPLICANT: DeveloGen AG fur entwicklungsbiol. Forschung
; TITLE OF INVENTION: Protein disulfide isomerase and ABC transporter
; TITLE OF INVENTION: homologous proteins involved in the regulation of
; TITLE OF INVENTION: energy homeostasis

; FILE REFERENCE: 24941PWO_RI

; CURRENT APPLICATION NUMBER: US/11/567,079

; CURRENT FILING DATE: 2006-12-05

; PRIOR APPLICATION NUMBER: EP01108315.1

; PRIOR FILING DATE: 2001-04-02

; NUMBER OF SEQ ID NOS: 21

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 663

; TYPE: PRT

; ORGANISM: Human

US-11-567-079-6

Query Match 21.0%; Score 702.5; DB 3; Length 663;
 Best Local Similarity 28.4%; Fred. No. 1.6e-63;
 Matches 193; Conservative 153; Mismatches 246; Indels 87; Gaps 23;

Qy 3 SSNVEVFIPVSQGNTNGFPATASNDL---KRAFT---EGAV-LSFHNICYRVKLKGFLP 54
 ||::| || |::| :| :| :| :| :| :| :| :

Db 35 SSNMEA---TETDLLNGHLKKVDDNLTEAQRFSSLPRRAAVNIEFRDLSYSVPEGPWW-- 89

Qy 55 CRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAAARKDPGSLGSDGVLINGAPR 113
 || |::| :| | | || ||::| || ||::| :| :| :| :| :

Db 90 -RKKGYKTLKGISGKFNSGELVAIMGPSGAGKSTLMNILAGYRE-TGMKGAVLINGLPR 147

Qy 114 PAN-FKCNSGYVVQDDVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDK 172
| : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Db 148 DLRCFRKVSCYIMQDDMLPHLTQVQEAMMVS AHLKLQE--KDEGRREMVEILTALGLLS 205

Qy 173 VADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFDEPTTGLDSSTANAVLLLKRM 232
| : | : | : | : | : | : | : | : | : | : | : | : | : |

Db 206 CANTRTGS----LSGGQRKR LALIALELVNNPPVMFFDEPTSGLDSASC FQVVS LMKGLA 260

Qy 233 KQGRTIIFSIHQPRYSIFKLFDSLTLASGRLMFHGPQA EALGYFESAGYHCEAYNNPAD 292
| : | : | : | : | : | : | : | : | : | : | : | : | : |

Db 261 QGGRSIICTIHQPSAKLFELFDQLYVLSQGQC VYRGKVCNIVP YLRLDGLNCPTYHNPAD 320

Qy 293 FFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLA EIVNSSFYKETKAELHQL 352
| : | : | : | : | : | : | : | : | : | : | : | : |

Db 321 FVMEVASG-----EYGDQNSRLVRAVREGMCDS---DHKRDL--- 354

Qy 353 SGGEKKKKITVF---KEISYTTSFCH-----QLRWVSKRSFKNLLGNPQASIAQII 400
| : | : | : | : | : | : | : | : | : | : | : | : |

Db 355 -GGDAEVNPFLWHRPSEEDSSSMEGCHSF SASCLTQFCILFKRTFLSIMRDSVLTHLRIT 413

Qy 401 VTVVLGLVIGAIYFGLKNDSTGIQN RAGVLFLTTNQCFSSVSAVEL-FVVEKKLF IHEY 459
| : | : | : | : | : | : | : | : | : | : | : | : |

Db 414 SHIGIGLLIGLLYLGIGNEAKVLSNSGFLF SMLFLMFA ALMPTVLTFFLEMGVFLREH 473

Qy 460 ISGYYRVSSYFLGKLLSDLLPMTMLPSIIFT CIVYFMLGLPKAD AFFVMMFTL-MMVAY 518
| : | : | : | : | : | : | : | : | : | : | : | : |

Db 474 LNYWYSLKAYYLAKTMAD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRFVLFAALGTM TSL 531

Qy 519 SASSMALAIAAGQS VVSATL LMTICFVFM MIFSGLLVNLTTIASWLSLQYFSIPRYGF 578
| : | : | : | : | : | : | : | : | : | : | : |

Db 532 VAQSLGLLIGA A STLSQVATFVGPVTAIPVLLFSGFFV SFD TIPTY LQWMSYI SYVRYGF 591

Qy 579 T-----ALQHNEFLGQNFCPGLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHV 631
| : | : | : | : | : | : | : | : | : | : |

Db 592 EGVILSIYGLDRED-----LHCDIDETCHFQK---SEAILRE-LDVENAKLYLDFI 638

Qy 632 ALACMIVFLTIAYLKLLF 650
| : | : | : |

Db 639 VLGIFFISLRLIAYFVLRY 657

RESULT 13

US-09-989-981A-2

; Sequence 2, Application US/09989981A

; Patent No. 6821750

; GENERAL INFORMATION:

; APPLICANT: Hobbs, Helen H.

; APPLICANT: Shan, Bei

; APPLICANT: Barnes, Robert

; APPLICANT: Tian, Hui

; APPLICANT: Tularik Inc.
 ; APPLICANT: Board of Regents, The University of Texas System
 ; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use
 ; FILE REFERENCE: 018781-007320US
 ; CURRENT APPLICATION NUMBER: US/09/989,981A
 ; CURRENT FILING DATE: 2002-07-23
 ; PRIOR APPLICATION NUMBER: US 60/252,235
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/253,645
 ; PRIOR FILING DATE: 2000-11-28
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 652
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; FEATURE:
 ; OTHER INFORMATION: mouse ABCG5 (mABCG5)
 US-09-989-981A-2

Query Match 20.7%; Score 693.5; DB 2; Length 652;
 Best Local Similarity 29.0%; Pred. No. 1.4e-62;
 Matches 181; Conservative 142; Mismatches 246; Indels 55; Gaps 16;

Qy	12 VSQGNTNGFPATASNDLAKAFTEGAVLSFHNICYRVKLKG-----FLPCRKPVEKEILSNI 67
	: : : : : :: ::
Db	25 LEQGSVTGTEARHS-----LGVLHVSYSVSNRVPWWNIKSCQQKWDQRQILKDV 73
Qy	68 NGIMKPG-LNAILGPTGGGKSSLVDLAARKDPSG-LSGDVLINGAP-RPANFKCNSGYV 124
	: :: : : :: :: : : : :
Db	74 SLYIESGQIMCILGSSGKGTTLLDAISGRLLRTGTLEGEVFVNGCELRRDQFQDCFSYV 133
Qy	125 VQDDVVMGTLTVRENLFQSAALRATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIR 184
	: : : ::: : : ::: : :
Db	134 LQSDVFLSSLTVRRETLYTAMILALCRSSADF-YNKKVVAVMTELSSLHVADQMIGSYNFG 192
Qy	185 GVSGGERKRTSIGMELITDPSIILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIHQ 244
	: : : : : : : : : : : : : :
Db	193 GISSGERRRVSIAAQQLQDPKVMMLEDEPTTGLDCMTANQIVLЛАELARRDRIVVTIHQ 252
Qy	245 PRYSIFKLFDSLTLLASGRLMFHGPQAELGYFESAGYHCEAYNNPADFFLDIINGSTA 304
	: : : : : : : : : : : : : :
Db	253 PRSELFQHFDKIAILTYGELVFCGTPPEEMLGFFNNCNGYPCPEHSNPFDYMDLTSVDTQ- 311
Qy	305 VALNRE-EDFKATEIIEPSKQDKPLIEKLAEIYVNNSFYKETKAELHQLSGGEKKKKITV 363
	: : :: : : : : : : : : : :
Db	312 -SREREIETYKRVQMLECAFKESDIYHKG-----LENIERARYLKT 351
Qy	364 FKEISYTT----SFCHQLRUVSKRSFKNLLGNPQASIAQIIVTVVVLGLVIGAIYFGLKND 419
	: : : : : : : : : : : : : :
Db	352 LPMVFFKTKDPPGMFGKLGVLRRVTRNLMRNKQAVIMRLVQNLIMGLFLIFYLLRVQNN 411

Db 25 LEQGSVTGTEARHS-----LGVLHVSYSVSNRVPWWNIKSCQQKWDRQILKDV 73

Qy 68 NGIMKPG-LNAILGPTGGGKSSLVDVLAARKDPSG-LSGDVLINGAP-RPANFKCNSGYV 124
: : : | : || : ||::|| : | : | | : || : | : | :||

Db 74 SLYIESGQIMCILGSSGKTTLDAISGRLLRTGTLGEVFVNGCELRRDQFQDCFSYV 133

Qy 125 VQDDVVMGTLTVRENLFQSAALRATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIR 184
: | || : :|||| :||::| || : : |::: |: || | || | :|

Db 134 LQSDVFLSSLTVRETLRYTAMLALCRSSADF-YNKKVVEAVMTELSSLHVADQMIQSYNFG 192

Qy 185 GVGSSGERKRRTSIGMELITDPSILFDEPTTGLDSSTANAVLLLKRMSKQGRTIIFSIHQ 244
|: | ||: | | :| :| || :| :| || | :|| :|| :| :| :| :|

Db 193 GISSGERRRVSIAAQLLQDPKVVMLDEPTTGLDCMTANQIVLLAELARRDRIVIVTIHQ 252

Qy 245 PRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIINGDSTA 304
|| :|: || :| | | :| | :| || :| :|| | :|| | :|| | :| :|

Db 253 PRSELFQHFDKIAILTYGELVFCGTPPEEMLGFFNNCGYPCEHHSNPFDYMDLTSVDTQ- 311

Qy 305 VALNRE-EDFKATEIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKKITV 363
: | | | :| :|| :| :| :| :| :| :| :| :| :| :| :| :|

Db 312 -SREREIETYKRVQMЛЕCAFKESEDIYHKI-----LENIERARYLKT 351

Qy 364 FKEISYTT---SFCHQLRWSKRSFKNLLGNNPQASIAQIIVTVVGLVIGAIYFGLKND 419
: : | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 352 LPMVPFKTKDPPGMFGKLGVLRLRVTRNLMRNKQAVIMRLVQNLLIMGLFLIFYLLRVQNN 411

Qy 420 ST--GIQN RAGVLFLLTNQCFSS-VSAVELFVVEKKLFIHEYISGYYRVSSYFLGKLLS 476
: :|: | :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 412 TLKGAVQDRVGLLQLVGA TPYTGMLNAVNLFPMLRAVSDQESQDGLYHKWQMLLAYVL- 470

Qy 477 DLLPMTMLPSIIFTICIVYFMLGLPKADAFFVMMFTLM---MVAYSASSMALAIAAGQSV 533
:| | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 471 HVLPFSVIATVIFSSVCYWTGLGLYPEVARFGYFSALLAPHLIGEFLTLVLLGIVQNPNI 530

Qy 534 VSVATLLMTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNF-C 592
|: | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Db 531 VNSIVALLSIS--GLLIGSGFIRNIQEMPIPLKILGYFTFQKYCCEILVVNEFYGLNFTC 588

Qy 593 PGLNATGNNPNCNYATCTGEEYLVK 616
| | : | | | | :|

Db 589 GGSNTSMLNHPMCAITQGVQFIEK 612

RESULT 15

US-11-128-026-1
; Sequence 1, Application US/11128026
; Patent No. 7229816
; GENERAL INFORMATION:
; APPLICANT: Tian, Hui
; APPLICANT: Schultz, Joshua
; APPLICANT: Shan, Bei
; APPLICANT: Tularik Inc.

; TITLE OF INVENTION: Sitosterolemia Susceptibility Gene (SSG): Compositions
; TITLE OF INVENTION: and Methods of Use
; FILE REFERENCE: 018781-006020US
; CURRENT APPLICATION NUMBER: US/11/128,026
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/09/837,992
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: US 60/198,465
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: US 60/204,234
; PRIOR FILING DATE: 2000-05-15
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 652
; TYPE: PRT
; ORGANISM: *Mus musculus*
; FEATURE:
; OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)
; OTHER INFORMATION: amino acid sequence
US-11-128-026-1

Query Match 20.7%; Score 693.5; DB 3; Length 652;
Best Local Similarity 29.0%; Pred. No. 1.4e-62;
Matches 181; Conservative 142; Mismatches 246; Indels 55; Gaps 16;

Qy 245 PRYSIFKLFDSLTLASGRLMFHGPQAQEALGYFESAGYHCEAYNNPADFFLDIINGDSTA 304
|| :
Dy 252 PRSPEI FQHEDKIALI TXCELLVECTTREPMI CEEENNCCYPCDPEHNSRDPEDYMDL TSVDT 311

Qy 305 VALNRE-EDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKKITV 363
: || | : | : : | : : : | : | | : | : : |

QY 364 FKEISYTT---SFHQQLRWWVSKRSFKNLGNPQASIAQIIVTVVGLVIGAIYFGLKND 419
: : | : | : : | : || : | | | : : : || : : : | : : | : :

Db	352	LPMVPFKTKDPPGMFGKLGVLRRVTRNLMRNKQAVIMRLVQNLIMGLFLIFYLLRVQNN	411
Qy	420	ST--GIQNAGVLFFLTTNQCFSS-VSAVELFVVEKKLFIHEYISGYYRVSSYFLGKLLS	476
	:	: : : : :: :: : : :	
Db	412	TLKGAQDVRVGLLQLVGVATPYTGMLNAVNLFPMLRAVSDQESQDGLYHKWQMLLAYVL-	470
Qy	477	DLLPMTMLPSIIFTCIVYFMLGLKPkadaffvmmftlm---MVAYSASSMALAIAAGQSV	533
	:	::: :: : : : : : : : ::	
Db	471	HVLPFSVIATVIFSSVCYWTGLGLYPEVARFGYFSALLAPHLIGEFLTLVLLGIVQNPNI	530
Qy	534	VSVATLLMTICFVFMIFSGLVLNLTIASWLSWLQYFSIPRYGFTALQHNEFLGQNF-C	592
	:	: :: :: : : : :	
Db	531	VNSIVALLSIS--GLLIGSGFIRNIQEMPIPLKILGYFTFQKYCCEILVVNEFYGLNFTC	588
Qy	593	PGLNATGNNPNCNYATCTGEEYLVK	616
	:	:::	
Db	589	GGSNTSMLNHPMCAITQGVQFIEK	612

Search completed: September 18, 2008, 22:10:39

Job time : 76 secs